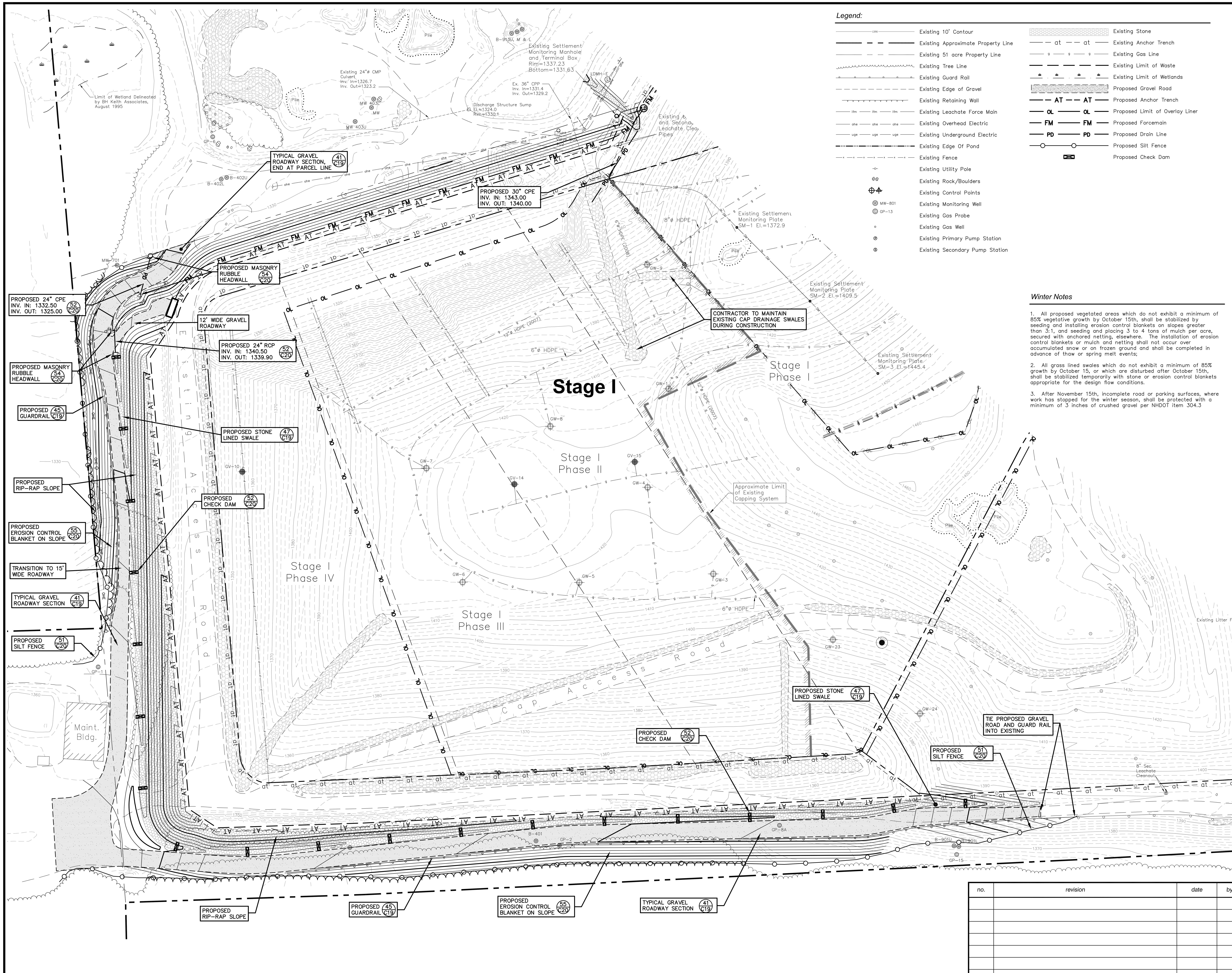

Legend:

Existing 10' Contour	Existing Stone
Existing Approximate Property Line	Existing Anchor Trench
Existing 51 acre Property Line	Existing Gas Line
Existing Tree Line	Existing Limit of Waste
Existing Guard Rail	Existing Limit of Wetlands
Existing Edge of Gravel	Proposed Gravel Road
Existing Retaining Wall	Proposed Anchor Trench
Existing Leachate Force Main	Proposed Limit of Overlay Liner
Existing Overhead Electric	Proposed Forcemain
Existing Underground Electric	Proposed Drain Line
Existing Edge Of Pond	Proposed Silt Fence
Existing Fence	Proposed Check Dam
Existing Utility Pole	
Existing Rock/Boulders	
Existing Control Points	
Existing Monitoring Well (MW-801)	
Existing Gas Probe (GP-13)	
Existing Gas Well	
Existing Primary Pump Station	
Existing Secondary Pump Station	

Winter Notes

1. All proposed vegetated areas which do not exhibit a minimum of 85% vegetative growth by October 15th, shall be stabilized by seeding and installing erosion control blankets on slopes greater than 3:1, and seeding and placing 3 to 4 tons of mulch per acre, secured with anchored netting, elsewhere. The installation of erosion control blankets or mulch and netting shall not occur over accumulated snow or on frozen ground and shall be completed in advance of thaw or spring melt events;

2. All grass lined swales which do not exhibit a minimum of 85% growth by October 15, or which are disturbed after October 15th, shall be stabilized temporarily with stone or erosion control blankets appropriate for the design flow conditions.

3. After November 15th, incomplete road or parking surfaces, where work has stopped for the winter season, shall be protected with a minimum of 3 inches of crushed gravel per NHDOT item 304.3

Erosion Control Notes

1. Prior to construction and thereafter erosion control measures are to be implemented as noted. The smallest practical area of land should be exposed at any one time during development. When land is exposed during development, the exposure should be kept to the shortest practical period of time. Land should not be left exposed during the winter months.

2. Hay bale barriers shall be installed and maintained along limits of work where shown. Additional hay bales shall be added as required by the Engineer. Hay bales will be staked and maintained prior to and during construction until disturbed areas are covered with crushed gravel or have a healthy stand of grass.

3. All disturbed areas and side slopes which are finish graded with no further construction to take place shall be seeded and mulched within 72 hours. All seed, lime and fertilizer programs shall conform to all applicable sections of the specifications.

4. Any disturbed areas which are to be left temporarily, or longer than two weeks and which will be regraded later during construction, shall be machine hay mulched and seeded at the rate of 2 tons per acre. The smallest practical area shall be disturbed during construction, but in no case shall exceed 5-acres at any one time before disturbed areas are stabilized.

5. Avoid use of undisturbed areas whenever possible during construction. Construction traffic shall travel the roadbeds of existing and future roads.

6. Silt fence shall be installed & maintained where shown and additional silt fence added as required by the Engineer prior to any on-site grading or disturbance of existing surface material. It should be maintained during and after development to remove sediment from runoff water and from land undergoing development. Where possible natural drainage ways should be utilized and left open to remove clean excess surface water. The silt fence is to be maintained and cleaned until all slopes have a healthy stand of grass.

7. Erosion control devices shall be inspected weekly and after every 0.5-in of rainfall.

8. All disturbed areas shall have a minimum of 4 inches of loam placed, before being seeded and mulched unless otherwise shown. Erosion control matting shall be placed on all slopes steeper than 3:1 and within grass lined swales as shown.

9. After all disturbed areas have been stabilized, the temporary erosion control measures are to be removed and accumulated sediment disposed of in an on site location designated by the Owner.

10. Baled hay and mulch shall be mowings of acceptable herbaceous growth, free from noxious weeds or woody stems, and shall be dry.

11. Silt fences shall be minimum of 36 inches high with the bottom of the fabric keyed into the ground (see detail). Posts shall be of wood or steel.

12. The erosion control devices shown on the Drawings and as specified in the specifications represent the minimum required for erosion control. The Contractor shall add to these devices any and all measures as required by the Engineer to effectively prevent migration of sediment from the work area.

13. All slopes and disturbed areas to be seeded shall comply with the NHDES Section 644 WF Seed Type 45.

14. Lime shall conform to NHDOT specifications, Div. 600, sec. 642 "Limestone". Limestone shall be applied by either the dry or hydraulic method as described in NHDOT Div 600, sec. 644.2.5. The amount of limestone applied should be based on evaluation of soil tests conducted by the contractor. The minimum rate of 2 tons per acre or 100 lbs per sq. ft. shall be applied if required.

15. Fertilizer to be used must be the equivalent of a 15-15-15 mixture and shall be reviewed by the Engineer. Fertilizer shall conform to NHDOT specifications Div. 600, Sec. 643 "Fertilizer for Grasses." Kinds and amounts of fertilizer should be based on evaluation of soil tests conducted by the contractor. The minimum amounts applied shall be as follows:

Nitrogen (N) 150 lbs per acre or 1.1 lbs per 1000 s.f.
Phosphate (P O) 100 lbs per acre or 2.2 lbs per 1000 s.f.
Potash (K O) 100 lbs per acre or 2.2 lbs per 1000 s.f.

(Note: This is the equivalent of 500 lbs per acre of 10-20-20 fertilizer or 1000 lbs per acre of 5-10-10)

16. All proposed swales must be stabilized prior to directing runoff to them.

17. All roadways to be stabilized within 72 hours of achieving finished grade.

18. All areas shall be stabilized within 45 days of initial disturbance. An area shall be considered stable if one of the following has occurred:
- Base course gravels have been installed in areas to be paved;
- A minimum of 85% vegetated growth has been established;
- A minimum of 3-in of non-erosive material such as stone or rip rap has been installed; or
- Erosion control blankets have been properly installed.

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, New Hampshire
03801-3819
Phone: 603/431-6196
Fax: 603/431-5376

Lafayette Center
Storer Street Building, Suite 208
Kennebunk, Maine 04043
Phone: 207/985-8717
Fax: 207/985-5520

E-mail: info@cmaengineers.com

North Country
Environmental Services, Inc.
Bethlehem, NH

project:

Stage IV Phase II
Type IB Permit Application

title:

Site Plan/ Erosion Control Plan

60 0 30 60 120
(in feet)
1 inch = 60 ft.

no.	revision	date	by

THE STATE OF NEW HAMPSHIRE ROBERT J. GRILLO No. 7605 LICENSED PROFESSIONAL ENGINEER

designed by: JSM/RJG	date: February 2009
drawn by: APV/DAA DMO/MAM	project no: 656.05
approved by: RJG/WAS	sheet no: C-18

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